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APPLICATION NO	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO	CONFIRMATION NO
09 755,016	01-05-2001	D. Wade Walke	LEX-0114-USA	4538
24231	7590 09 09 2002			
LEXICON GENETICS INCORPORATED			EXAMINER	
8800 TECHNOLOGY FOREST PLACE THE WOODLANDS, TX 77381-1160			FRONDA, CHRISTIAN L	
			ART UNIT	PAPER NUMBER
			1652	
			DATE MAILED: 09 09 2002	13

Please find below and/or attached an Office communication concerning this application or proceeding.

# Office Action Summary

Application No.

Applicant(s)

09/755,016

Walke et al.

Examiner

Christian L. Fronda

Art Unit **1652** 



	The MAILING DATE of this communi	ication appears on the cover sheet with the correspondence address	
Period	for Reply		
		REPLY IS SET TO EXPIRE3 MONTH(S) FROM	
	MAILING DATE OF THIS COMMUNIC	ATION: 37 CFR 1-136 (a) - In no event, however, may a reply be timely filed after SIX (6) MONTHS from the	
mailir	ng date of this communication		
		days, a reply within the statutory minimum of thirty (30) days will be considered timely ory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.	
- Failur	e to reply within the set or extended period for reply will	l, by statute, cause the application to become ABANDONED (35 U S C § 133)	
	eply received by the Office later than three months after dipatent term adjustment. See 37 CFR 1 704(b)	r the mailing date of this communication, even if timely filed, may reduce any	
Status			
1) X	Responsive to communication(s) filed	d on <i>Feb.</i> 7, 2002	
2a)	This action is <b>FINAL</b> .	2b) <b>X</b> This action is non-final.	
3)		for allowance except for formal matters, prosecution as to the merits is ce under <i>Ex parte Quayle</i> , 1935 C.D. 11; 453 O.G. 213.	
Dispos	ition of Claims		
4) X	Claim(s) 1 and 2	is/are pending in the application.	
	4a) Of the above, claim(s)	is/are withdrawn from consideration.	
5)	Clairn(s)	is/are allowed.	
6) X	Claim(s) <u>1 and 2</u>	is/are rejected.	
7) .	Claim(s)	is/are objected to.	
8)		are subject to restriction and/or election requirement.	
Applica	ation Papers		
9)	The specification is objected to by the Examiner.		
10).	The drawing(s) filed on	is/are a) accepted or b) objected to by the Examiner.	
	Applicant may not request that any ob-	ojection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).	
11)	The proposed drawing correction file	ed onis: a) approved_b) disapproved by the Examiner.	
	If approved, corrected drawings are re	quired in reply to this Office action.	
12)	The oath or declaration is objected to	by the Examiner.	
Priority	under 35 U.S.C. §§ 119 and 120		
13)	Acknowledgement is made of a clair	m for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).	
a)	All b) Some* c) None of:		
	1. Certified copies of the priority of	documents have been received.	
	2. Certified copies of the priority of	documents have been received in Application No.	

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15. Acknowledgement is made of a calcolfor decest oprorit, under 35 U.S.C. \$5,120 and or 121

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#### **DETAILED ACTION**

- 1. In the <u>AMENDMENT; AND RESPONSE TO OFFICE ACTION DATED</u>

  OCTOBER 26, 2001 dated 2/7/2002 (Paper No. 10), Applicants have canceled claims 3 and 4 and amended claims 1 and 2.
- 2. Claims 1 and 2 are under consideration in this Office Action.
- 3. All rejections stated in the previous Office Action dated 10/26/01 (Paper No. 8) have been withdrawn. New rejections are stated below in this Office Action.

### **Priority**

4. Applicant's claim for domestic priority under 35 U.S.C. 119(e) of U.S. provisional application number 60/174,686, filed 01/06/2000, is acknowledged.

## Nucleotide Sequence and/or Amino Acid Sequence Disclosures

5. The requirements stated in the office communication "NOTICE TO COMPLY WITH REQUIREMENTS FOR PATENT APPLICATIONS CONTAINING NUCLEOTIDE SEQUENCE AND/OR AMINO ACID SEQUENCE DISCLOSURES" dated 05/21/2002 (Paper No. 11) have been withdrawn. A paper copy of the sequence listing has been received and has been matched with the application.

#### Claim Rejections - 35 U.S.C. § 101

6. 35 U.S.C. 101 reads as follows:

Claims 1 and 2 are rejected under 35 U.S.C. 101 because the claimed invention is not supported by either a specific and substantial asserted utility or a well established utility.

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Applicant discloses the nucleotide sequence of SEQ ID NO: 3 and the deduced amino acid sequence of SEQ ID NO: 4. Applicants state the protein consisting of SEQ ID NO: 4 is a "novel human protein" (NHP) sharing structural similarity with "trypsin-like serine proteases" which is a generic asserted utility. The specification does not specifically disclose the function/activity of the protein consisting of SEQ ID NO: 4 or its relationship to any disease. The specification does not show any enzyme assays that demonstrate that the protein consisting of SEQ ID NO: 4 has any protease activity. There is no disclosed or "real world" utility associated with the nucleic acid of SEQ ID NO: 3 or the protein of SEQ ID NO: 4. It appears that the main utility of the nucleic acids and protein is to carry out further research to identify the biological function and possible diseases associated with the nucleic acids and protein. Substantial utility defines a "real world" use. Utilities that require or constitute carrying out further research to identify or reasonably confirm a "real world" context of use are not substantial utility. Thus, the claimed invention has no specific and substantial asserted utility or a well established utility.

Claims 1 and 2 are also rejected under 35 U.S.C. 112, first paragraph. Specifically, since the claimed invention is not supported by either a specific and substantial asserted utility or a well established utility for the reasons set forth above, one skilled in the art clearly would not know how to use the claimed invention.

### Claim Rejections - 35 U.S.C. § 112, 1st Paragraph

- 8. The following is a quotation of the first paragraph of 35 U.S.C. 112:

  The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, coneise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.
- 9. Claim 1 and 2 are again rejected under 35 U.S.C. 112, first paragraph, as containing subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had

and a skilled artisan would be able to distinguish the claimed nucleic acids from other materials based on the structural description provided, specifically, the nucleotide sequence of SEQ ID NO 3, 34 contiguous nucleotides of SFQ ID NO 3 and the nucleotide sequence that encodes the

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amino acid sequence of SEQ ID NO: 4. The Examiner disagrees for the reasons stated below.

The claims are directed to all possible polynucleotides comprising at least 34 contiguous nucleotide of SEQ ID NO: 3 (claim 1) or all possible polynucleotides encoding any protein comprising SEQ ID NO: 4 which hybridize under highly stringent conditions to the nucleotide sequence of SEQ ID NO: 3 or the complement thereof (claim 2). The specification, however, only provides the following representative species encompassed by these claims: a polynucleotide consisting of a nucleotide sequence of SEQ ID NO: 3 and a polynucleotide encoding a protein consisting of an amino acid sequence of SEQ ID NO: 4.

While there is a structural description provided by the specification, specifically, the nucleotide sequence of SEQ ID NO: 3, 34 contiguous nucleotides of SEQ ID NO: 3, and the nucleotide sequence that encodes the amino acid sequence of SEQ ID NO: 4, there is no disclosure of any particular structure to function/activity relationship in the disclosed species. The specification also fails to describe additional representative species of these polynucleotides by any identifying structure to function/activity relationship, other than the claimed polynucleotide comprises at least 34 contiguous nucleotide of SEQ ID NO: 3 or the polynucleotide encodes any protein comprising SEQ ID NO: 4, for which no predictability of structure to function/activity relationship is apparent.

Furthermore, the specification does not provide a written description of the nucleotide sequence that is 5' or 3' of SEQ ID NO: 3, 34 contiguous nucleotides of SEQ ID NO: 3, or a nucleic acid encoding SEQ ID NO: 4. The specification does not provide a written description of the N-terminal of C-terminal amino acid sequence of the an amino acid sequence of SEQ ID NO: 4. Given this lack of additional representative species as encompassed by the claims and any structure to function/activity relationship, Applicants have failed to sufficiently describe the claimed invention, in such full, clear, concise, and exact terms that a skilled artisan would recognize Applicants were in possession of the claimed invention.

# Claim Rejections - 35 U.S.C. § 112, 2nd Paragraph

10. The following is a quotation of the second paragraph of 35 U.S.C. 112: The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

(")"|(-"

In claim 2, the phrase "hybridizes under highly stringent condition" renders the claim vague and indefinite because the specific "highly stringent" hybridization and washing conditions

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are not recited in the claim and the specification does not clearly define the "highly stringent" hybridization conditions.

## Claim Rejections - 35 U.S.C. § 102

12. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 13. Claim 1 is rejected under 35 U.S.C. 102(b) as being anticipated by Strausberg et al. (Accession AA884376).

Strausberg et al. (Accession AA884376) teach a nucleic acid molecule which comprises 48 contiguous nucleotides of SEQ ID NO: 3 (see enclosed alignment). Thus, the reference teachings anticipate the claimed invention.

#### Conclusion

- 14. No claim is allowed.
- 15. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Christian L. Fronda whose telephone number is (703)305-1252. The Examiner can be contacted Monday-Friday from 8:30AM 5:00PM. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ponnathapura Achutamurthy, can be reached at (703)308-3804. Any inquiry of a general nature or relating to the status of this application should be directed to the Group 1600 receptionist whose telephone number is (703)308-0196.

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Technology Center 1600 Art Unit 1652